Amendments to the Specification:

At page 5, lines 10-13, please amend the specification as shown:

~~Fig. 1 illustrates a computer system used for implementing various embodiments of the present invention.~~

Figs. 1~~2~~-4 illustrate different Direct Acyclic Graphs for solving matching problems in a content-based publish-subscribe system.

At page 5, lines 19 through page 6, line 4, please amend the specification as shown:

~~Referring to Fig. 1, a~~A computer graphics processing system ~~100~~ includes a two-dimensional graphical display (also referred to as a "screen") ~~102~~ and a central processing unit ~~104~~. The central processing unit ~~104~~ contains a microprocessor and random access memory for storing programs. A disk drive ~~106~~ for loading programs may also be provided. A keyboard ~~108~~ having a plurality of keys thereon is connected to the central processing unit ~~104~~, and a pointing device such as a mouse ~~110~~ is also connected to the central processing unit. It will also be understood by those having skill in the art that one or more (including all) of the elements/steps of the present invention may be implemented using software executing on a general purpose computer graphics processing system, using special purpose hardware-based computer graphics processing systems, or using combinations of special purpose hardware and software.

At page 9, lines 1-3, please amend the specification as shown:

Referring to Fig. ~~2~~1, one example of a DAG 10 is shown, illustrating a matching process for assisting a subscriber to match an event based on its predetermined predicates.

At page 9, lines 15-16, please amend the specification as shown:

Referring now to Fig. ~~3~~2, another DAG 22 matches an event with a subscriber S2.

At page 10, lines 1-3, please amend the specification as shown:

Fig. ~~4~~ 3 illustrates a more complicated DAG 32 where subscribers S1, S2, and S3 have different subscription predicates, some portion of which are commonly shared.

At page 10, lines 16-21, please amend the specification as shown:

In a fashion similar to the processes as described in Figs. ~~2~~1 and ~~3~~2, S1 (node 44) is matched with the event when node 40 representing test C gives a *FALSE* value, and S3 (node 46) is matched if either the node 40 evaluates to a *TRUE* or the node 40 evaluates to a *FALSE* or *NULL* and the node 42 further evaluates to a *TRUE*. S2 (node 48), is matched if test A renders a *FALSE*, or through a longer path that traverses nodes 50 and 52.

At page 15, lines 15-17, please amend the specification as shown:

The concept is illustrated by Fig. ~~2~~1, which represents the subscription A AND B AND C.